



Ensuring
your safety
through
technology

Suspension & vibration control



RELIABILITY
TECHNOLOGY
MTC strenghts
 SAFETY
 LIFE CYCLE
 ENVIRONMENT
 CARE
INNOVATION
 COMFORT
 EASY
 MAINTENANCE

Your safety and confort worldwide

PROVIDING SUSPENSION SYSTEMS FOR ALL KIND OF ROLLING STOCK

- High-speed
- Commuter (regional-intercity)
- Urban (metro, tram, low-floor)
- Locomotives
- Freight



MTC COMPANY PROFILE

MTC is specialized in the design and manufacture of rubber-metal suspension systems for the railway sector. MTC is part of Wabtec Corporation, and currently has production plants in Spain (HQ), China, India and US. Leading company in this sector, MTC works with the main manufacturers of rolling stock. Also has earned the trust of Operators for the supply of spare parts for maintenance of their projects. MTC main products are primary and secondary suspensions and different subsystems for bogies.



+100
 NEW DEVELOPMENTS
 PER YEAR



MTC ADDED VALUE

MTC has developed special designs to adapt to the needs of its customers for special applications:

- Rubber compliant with EN45545 fire and smoke standard
- Extend part life (increase maintenance periods).
- Suspension systems for extreme environments :
 - Low temperatures +50°C
 - High temperatures +80°C
 - Sand impact





Designing together the suspensions of the future



YOUR SUSPENSION ENGINEERING DEPARTMENT

MTC supports on the development phase of your bogie design, sharing its engineering department experience. From complex systems calculations (FEA) to re-engineering of existing parts.

Design and Engineering



**SPECIALIZATION
IN RAILWAY
IS OUR COMPETITIVE
ADVANTAGE.**

MTC can perform complete bogie suspension system calculations, supporting our customers, Rolling stock constructors and operators, in the definition of the best suspension solutions.

- **Development based on:**
FEM by MARC/MATLAB tools
Wolher curve analyse
Damage calculations
Field experience
- **Test facilities:**
Fatigue
Creep tests
Mechanical characteristics
- **Capability to test your fleet: design improvement**



MTC COMPETENCES

RUBBER FORMULATIONS

PATENTED SOLUTIONS

RAMS CALCULATIONS

PROCESS
CAPABILITIES

FULL SERVICE

REVERSE ENGINEERING

ASSEMBLY ENGINEERING



Primary suspensions

All kind of primary suspension designs

- Conical spring
- Guiding bush
- Chevron
- Guiding link
- Hydrobush



Secondary suspensions

Different secondary suspension applications:

- Air spring systems
- Emergency springs
 - Bushings
 - Buffers
- Layer springs



Other railway applications

SUBSYSTEMS



MOTOR AND GEARBOX



COUPLER PARTS



BRAKE SYSTEMS



RESILIENT WHEELS



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